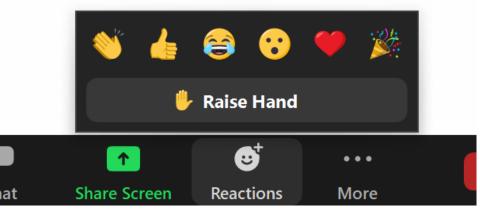
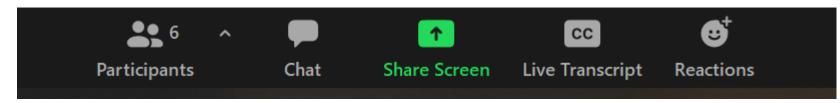
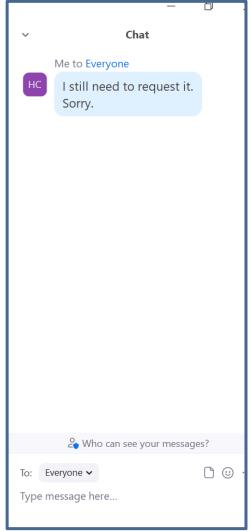


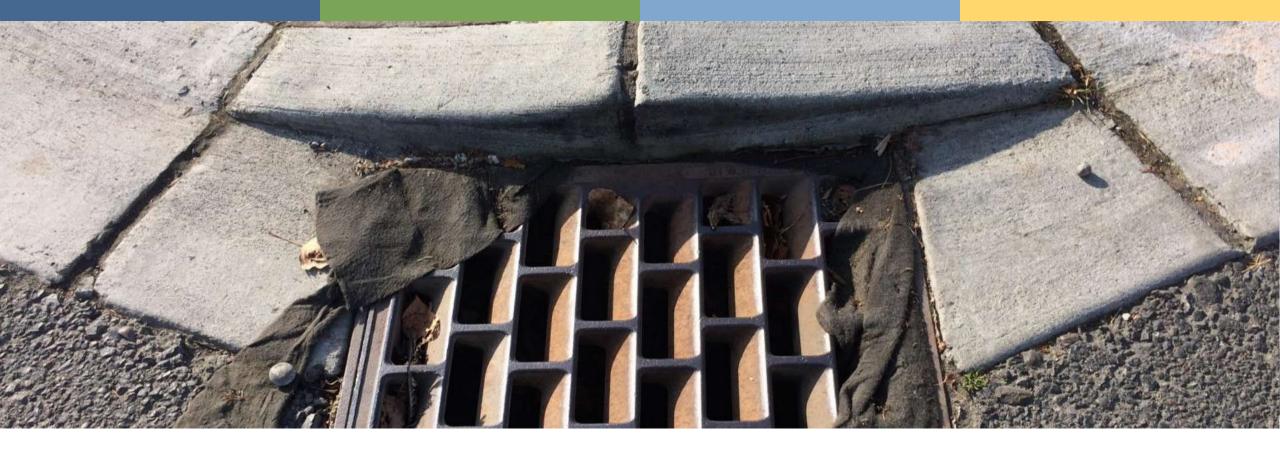
Navigating Zoom features

- Chat
- Raise hand & Reactions
- CC Live Transcript











2024 Municipal Stormwater Permit Reissuance - Western Washington focus

Water Quality Program
Abbey Stockwell; Amy Waterman; Amanda Heye; Mark Melton

Welcome!

To-do

- Quick permit overview
 - Reissuance next steps
- Permit reissuance Western WA focus
 - Preliminary Draft
- Break ☺
- SWMM Updates
- Hear from you



Municipal Stormwater Permits

Quick permit overview





The problem with stormwater is...





Municipal Stormwater Permits implement Federal and State rules

- Federal Clean Water Act
 - Maximum Extent Practicable (MEP)
- State Water Pollution Control Act
 - All Known, Available, and Reasonable methods of prevention, control, and Treatment (AKART)

```
FEDERAL WATER POLLUTION CONTROL ACT
             AN ACT To provide for water pollution control activities in the Public Health Serv.

other purposes.

AN ACT To provide for water pollution control activities in the Public Health Serv.

Agency and in the Federal Works Agency, and for
                   Be it enacted by the Senate and House of Representatives of the nited States of America in Congress assembled.
            United States of America in Congress assembled,
                        TITLE I—RESEARCH AND RELATED PROGRAMS
      tain the chemical, physical, and biological integrity of the Nation's waters. In order to achieve this objective it is hereby declared that.
     tain the chemical, physical, and biological integrity of the Nation's waters. In order to achieve this objective it is hereby declared that,
     waters. In order to achieve this objective it of the standard and that the
          (1) it is the national goal that the discharge of pollutants into the navigable waters be eliminated by 1985;

(2) it is the national goal that wherever attainable an in-
      into the navigable waters be eliminated by 1985;

(2) it is the national goal that wherever attainable, an inand propagation of fish, shellfish, and wildlife and provides for the water be achieved by July 1, 1983;
       and propagation of fish, shellnsh, and wildlife and provides recreation in and on the water be achieved by July 1, 1983;

(3) it is the national nolicy that the discharge of toxic;
              (3) it is the national policy that the discharge of toxic pol-
           Ants in toxic amounts be prohibited;
(4) it is the national policy that Federal financial assist-
nonwided to construct nublicly owned waste treatment
   ance be provided to construct publicly owned waste treatment
          (5) it is the national policy that areawide treatment man-
 (b) It is the national policy that areawide treatment man-
agement planning processes be developed and implemented to
assure adequate control of sources of nollutants in each State:
agement planning processes be developed and implemented to assure adequate control of sources of pollutants in each State;
```

So, what is regulated?

- Discharges from **publicly owned** <u>Municipal</u> <u>Separate Storm Sewer Systems (MS4s).</u>
- Including:
 - ✓ Roads with drainage systems
 - ✓ Municipal streets
 - ✓ Catch basins
 - ✓ Curbs and gutters
 - ✓ Ditches and other man-made channels
 - ✓ Storm drains



Permit History



Phase I (Issued 1995, reissued 2007, 2012, 2019)

 King, Snohomish, Pierce, & Clark Counties; Cities of Seattle & Tacoma

Western WA Phase II
(Issued 2007,
reissued 2012, 2019)

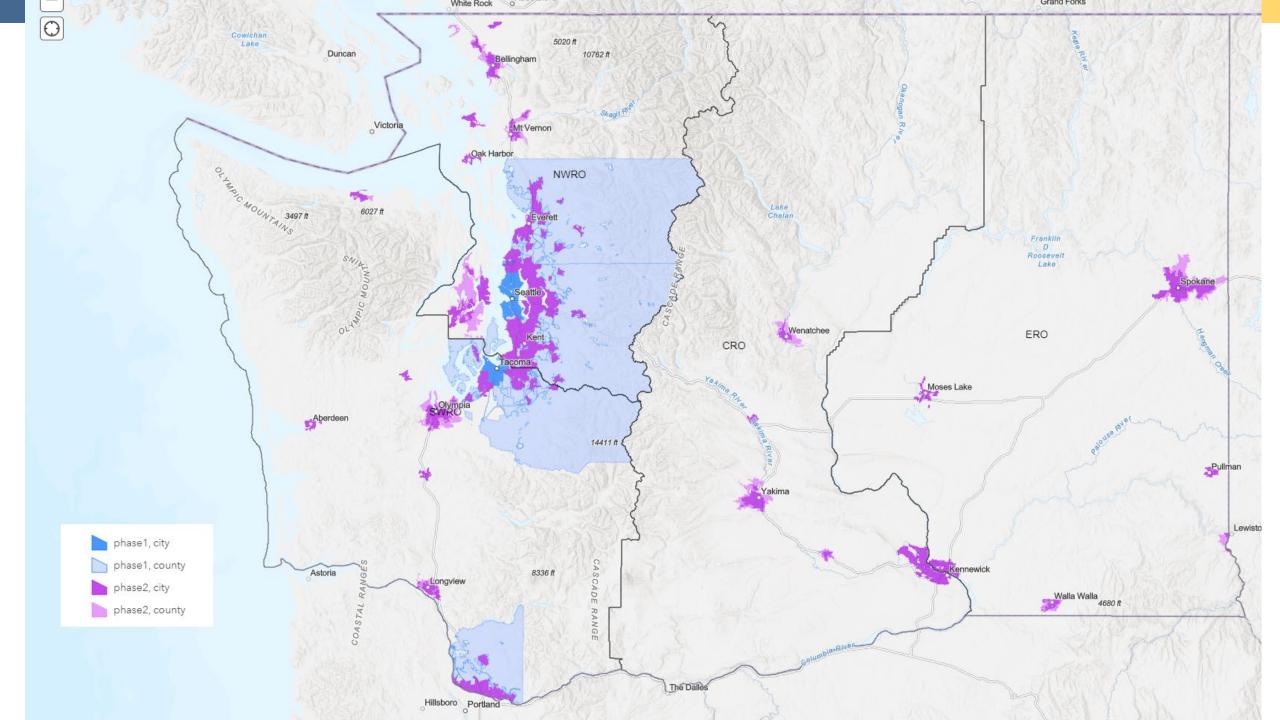
• 83 cities and parts of 5 counties

Eastern WA Phase II
(Issued 2007,
reissued 2012, 2019)

• 19 cities and parts of 6 counties

Phase I&II permits include Secondary Permittees

• 47 Ports, Schools, Irrigation Districts, etc.





Stormwater Management Program



Stormwater Planning

Mapping

Public Education & Outreach



Public Involvement

Illicit Discharges Detection & Elimination (IDDE)

Controlling Runoff from New Development

Operations & Maintenance (O&M)



Source Control for existing development

Structural Stormwater Controls (PH I only)

Monitoring & Assessment

Total Maximum Daily Loads (TMDLs)

Stormwater Management Manuals Stormwater Management Manual for Eastern Washington Stormwater Management Manual for Western Washington July 2019 August 2019 ECOLOGY ECOLOGY Publication Number 19-10-021 Publication Number 16-10-044 . Compare on recorded agree

Things to talk about today – preliminary drafts

- Mapping outfall reporting standard
- Street Sweeping program
- PCBs and how the permit is trying to handle this source of pollutants
- Tree retention as a water quality tool
- Monitoring and Assessment Eastern WA focus
- Appendix 1 updates threshold updates for applying stormwater controls

Things not covered today

- Structural Stormwater Controls
- (WWA) Phase II retrofit approach
- Stormwater Planning
- Education and Outreach
- EJ
- S4- Compliance with Standards
- Clarifications
- Annual Reports
- TMDLs
- New Permittees
- UICs

Policy Advisory Committee

Structural Stormwater Controls (SSC)

Next preliminary draft – for early 2023



Structural Stormwater Controls Policy Advisory Committee



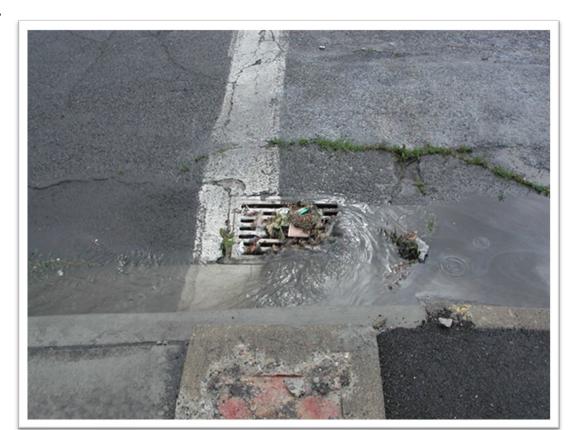
Phase II Retrofit program



Proposed changes to \$5



- Initial thinking Not an exhaustive list
- Revised formatting throughout
- Statewide consistency where appropriate



Tentative Reissuance Timeline

Where we're headed next

Feb. 2022

Early Input

Spring 2022

Listening Sessions

Fall/Winter 2022

Informal draft permits & comments

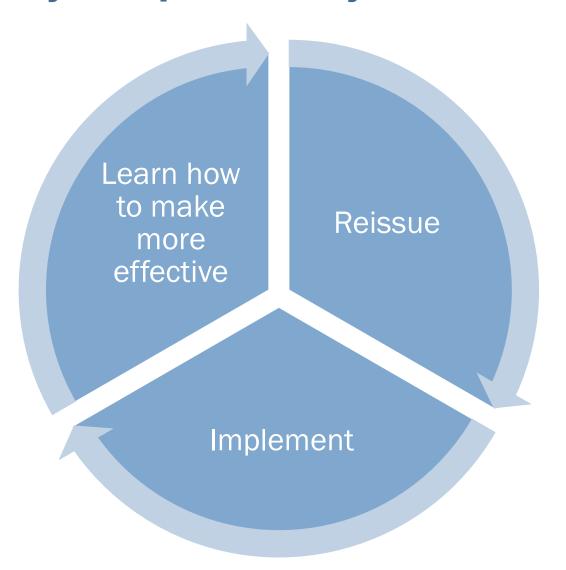
Summer/ Fall 2023

Draft permits published & hold public hearings

July 2024

Make final decision to reissue

2024 Municipal Stormwater Permit Reissuance 5-year permit cycle



The Longest



Shortest Time



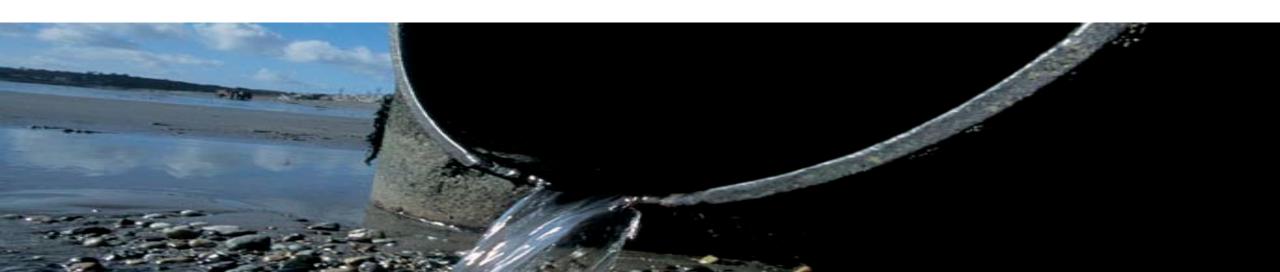
Informal Comments due Dec 2!

Submit your comments thru e-Comments

Excel template to help us sort your comments

Significant Updates Proposed

- Address tire wear research findings Road Runoff
- Enhance Source Control requirements
 - street sweeping program
 - PCBs in building materials
- Update Appendix 1
 - Project thresholds
 - Wetland protections



Address road runoff

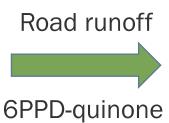
Tire wear research



Ubiquitous Tire Preservative Kills Salmonids

• It took 20+ years of investigation to identify the chemical that causes pre-spawn mortality of Coho







Ecology's questions about 6PPD/q

- 1 Is there a safe, viable alternative to 6PPD?
- Do we have the analytical methods we need?
- 3 What are other biological effects of 6PPD-quinone?
- What are the best stormwater management approaches?
- 5 Where should we prioritize mitigation efforts?



6PPD -> 6PPD-Quinone



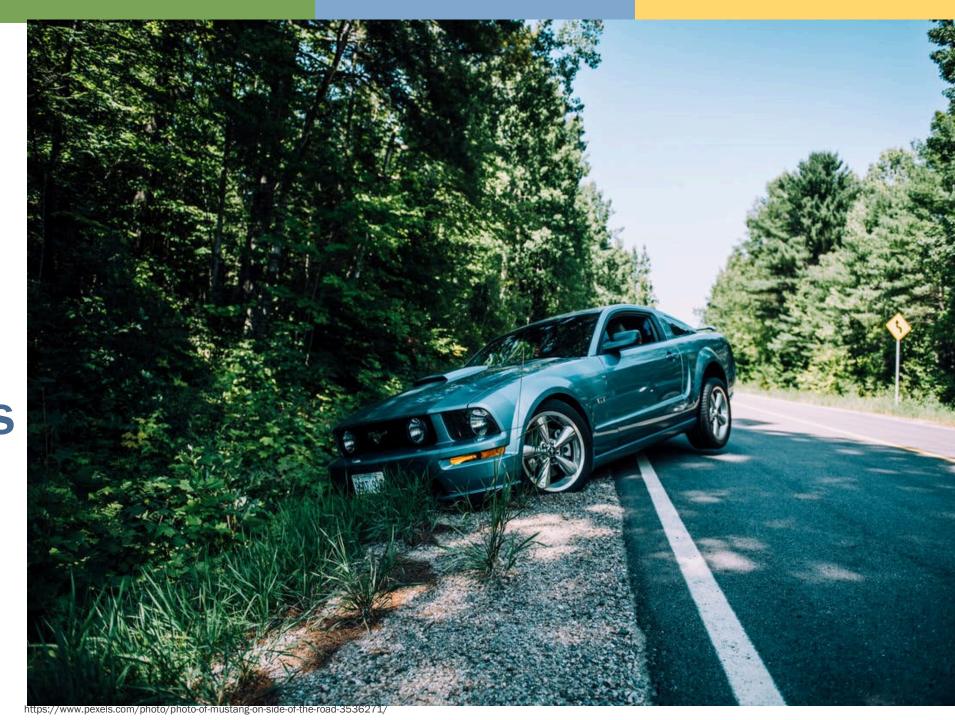
Proviso work

- 2021: Identify existing BMPs for reducing the toxicity to Coho and other aquatic life
- 2022: Study and develop BMPs to treat stormwater containing tire wear



Tire/tire wear sources

statewide priority



Muni Permit programs

Reviewing requirements to enhance for Road runoff

- Street sweeping program
- Redevelopment
- SSC and SW retrofits



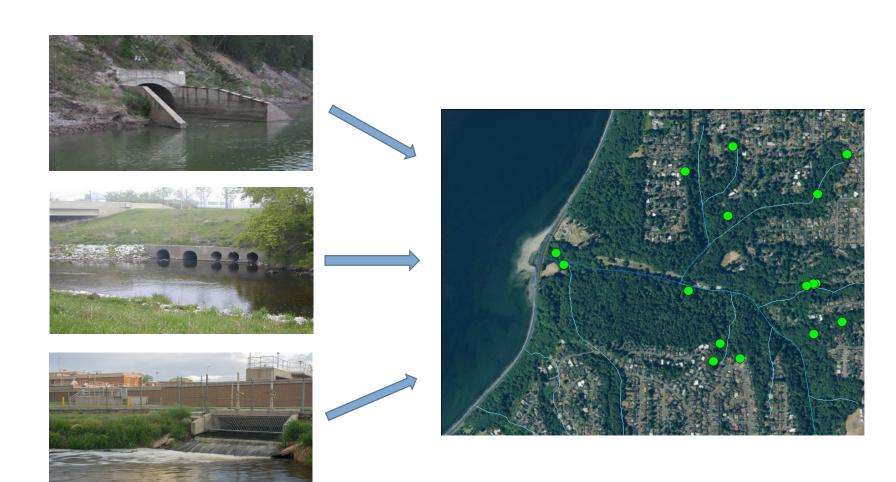


Mapping

Standard outfall reporting



SW Outfalls to Surface Water







Reporting and and and and ard ...

data with each other and with



Templates – which will work best?

Excel

Geodatabase

Shapefile

ArcGIS Online template

Proposed Attributes



	State of Washington
Outfall_ID	REQUIRED
Permit_Number	REQUIRED
Latitude_Decimal_Degrees	Required IF using excel template to submit
Longitude_Decimal_Degrees	Required IF using excel template to submit
Horizontal_Datum	Required IF using excel template to submit
Horizontal_Coordinate_Accuracy	REQUIRED
Horizontal_Coordinate_Collection_Method	REQUIRED
Outfall_Elevation	Recommended
Elevation_Units	
Vertical_Datum	
Elevation_Accuracy	
Elevation_Collection_Method	
Pipe_Or_Ditch_Size	
Pipe_or_Ditch_Size_Units	
Pipe_Or_Ditch_Material	



Enhance Source Control requirements

street sweeping program PCBs in building materials



Street Sweeping





Street sweeping

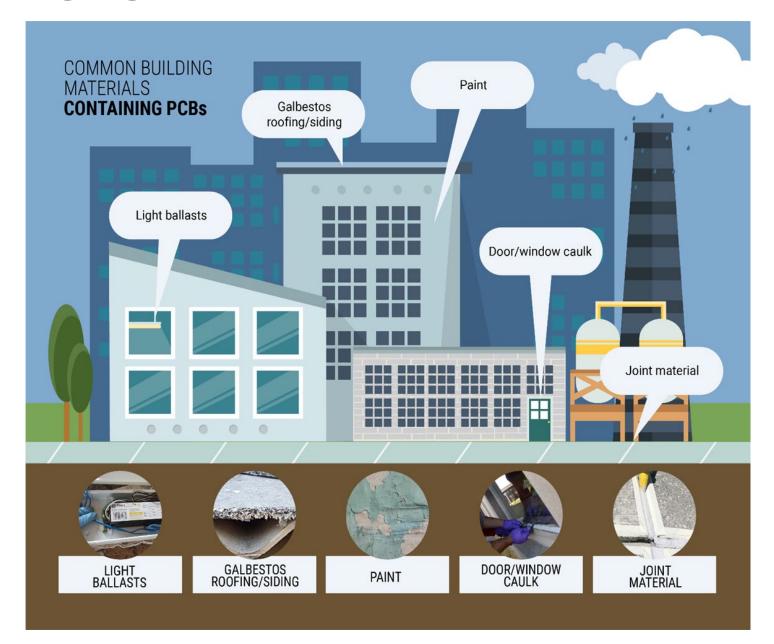
- 3 yrs to develop program
- Sweep high priority areas
 - Once before rainy season
 - 2 additional times/year
 - 90% of high priority areas that directly discharge to surface waters
- Maintenance, disposal, training

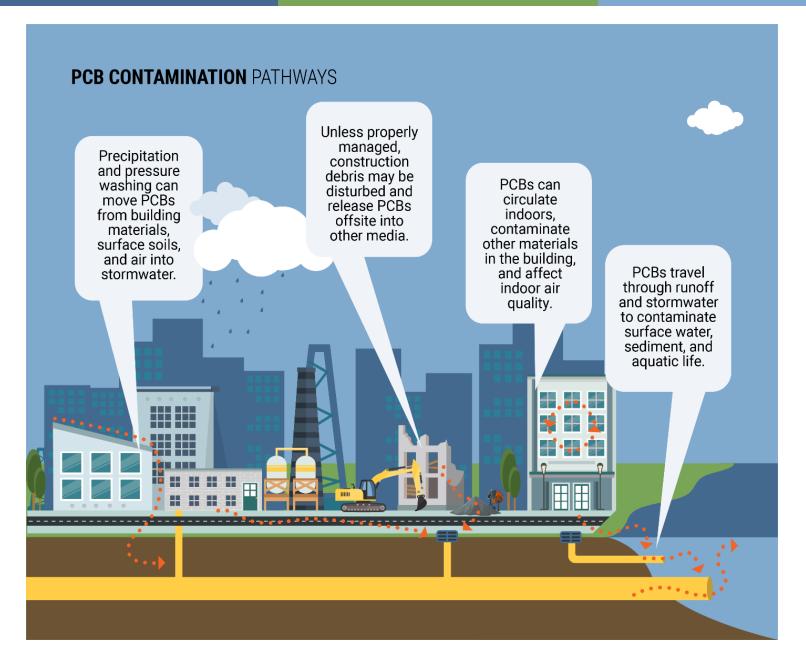


Questions?

Source control for PCBs

- Preventing movement of PCB's from buildings into stormwater
- Target: Exterior building materials for those built between 1950-1980







Exterior PCB-containing materials on a building degrade and flake off over time.

Greater chance that more PCBs will be released into the environment during renovation and demolition.

PCB's travel to soils and stormwater from rain, pressure washing, construction debris.

Source control for PCBs: Some Tools

 ECY guidance: "How to Find and Address PCB's in Building Materials"

Search "PCB's in building materials" on website, at bottom

- Permit changes to 3 different sections
 - Education & Outreach
 - Illegal Discharge Detection and Elimination
 - Operations and Maintenance



Proposed changes to Manual



















Illicit Discharge Detection and Elimination

 Goal is to avoid external building washwater with PCB's getting into MS4.

• Conditionally allowable discharges are further clarified.



Operations and Maintenance

- For the O&M Plan section, asking permittees to implement policies and practices regarding:
 - Proper management of washdown water from buildings built between 1950-1980.
 - Proper handling of building materials and source control in preparation for demolition and renovation





Tree Retention

Tracking Tree Canopy





Tree Canopy

Statewide proposal

Critical to receiving water health

Tree canopy as a water quality tool

Tree Canopy Retention

Document:

- existing landscape and riparian tree canopy cover
- canopy change over time

Adopt and implement:

 Tree canopy retention/restoration objectives to support stormwater management







Monitoring & Assessment



S8 - Monitoring & Assessment



Effectiveness studies





S8. Monitoring and Assessment - EWA

- Continuing to implement a regional effectiveness study, or lead own study – similar to current requirements
- SAM Effectiveness Study and Source ID Program
 - SAM = Stormwater Action Monitoring
 - Pooled funding program based on population
 - Leverage other studies to be statewide or EWA specific
 - Vote on studies by participating in Stormwater Work Group
- Stormwater discharge monitoring

Questions/Comments?



Appendix 1

Thresholds





Appendix 1 – Proposed Updates

- Clarity on exemptions to ensure intended use
- Redevelopment thresholds determine review of requirements
 - Lowering Project level thresholds
 - To capture more road and commercial/industrial projects with potential to pollute
- Runoff Treatment (MR6)
 - Lowering Threshold Discharge Area for runoff treatment
 - Threshold used after considering the Project Level

